

REMOVAL OF NICKEL FROM AQUEOUS FERROUS CHLORIDE

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Abstract of JP62191428

PURPOSE:The addition of iron dust to aqueous ferrous chloride enables Ni as a contaminant to be removed economically and efficiently whereby the ferrous chloride solution used in Ni alloy etching is reused after regeneration.

CONSTITUTION:Iron dust of 100 or higher mesh is added to aqueous ferrous chloride in an equimolar or more amount based on the Ni in the solution to effect reactions whereby Ni is removed. When a Fe-Ni alloy such as an amber material or alloy material is used, the reactions of equations I and II form ferrous chloride and nickel chloride in the etching waste solution. Iron dust is added to the waste solution and the pH is adjusted to 2 or more. According to the reaction equations, the Ni ions are converted into metallic nickel and readily separated from the solution together with the iron dust. Ferrous chloride free from Ni is chlorinated according to equation III to form ferric chloride, which is reused.

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